

IN THE CLAIMS

Please amend claims 10 and 11.

Please add claims 40-51.

The following is a clean version of the claims as amended. All of the claims pending in this application are set forth for the convenience of the Examiner. A version with markings to show changes made is set forth as an appendix to this Amendment.

10. (Amended) A structure for modulating light, comprising:

modulators of light each including an interference cavity for causing interference modulation of the light; and

C1
an optical compensation mechanism coupled to the modulators which enhances the optical performance of the structure.

11. (Amended) The structure of claim 10, in which the mechanism comprises at least one selection from the group consisting of a holographically patterned material, a photonic crystal array, a multi-layer array of dielectric mirrors, and an array of microlenses.

40. A device for modulating light, comprising:

C2
an array of interference modulators, each comprising a primary and a secondary mirror which in a quiescent state is spaced from the primary mirror by a first distance so that light reflected from the modulator is of a first color, and which in a second state, under influence of a bias voltage, is spaced from the primary mirror by a second distance which is less than the first distance so that the modulator reflects light of a second color; and

an optical compensation mechanism coupled to the array to compensate for changes in a color of light reflected by the array due to changes in an angle at which the array is viewed.

41. The device of claim 40, wherein the optical compensation mechanism comprises a film which includes arbitrary periodic patterns of refractive indices.

42. The device of claim 40, wherein the optical compensation mechanism comprises an array of photonic crystals to reduce an angle of incidence that light passing through the optical compensation mechanism makes with the array of interference modulators.

43. The device of claim 40, wherein the optical compensation mechanism comprises a film which includes a plurality of microscopic plates oriented to reduce an angle of incidence that light passing through the optical compensation mechanism makes with the array of interference modulators.
C2

44. The device of claim 42, ⁴³ wherein the film comprises a plurality of layers each comprising microscopic plates oriented to reduce an angle of incidence that light passing through the layer makes with a layer below it.

45. The device of claim 40, wherein the optical compensation mechanism comprises a plurality of microlenses to magnify an active area of the interference modulators in the array.

46. A method for fabricating a reflective display, the method comprising:

fabricating an array of interference modulators, each comprising a primary and a secondary mirror which in a quiescent state is spaced on the primary mirror by a first distance so that light reflected ~~from~~ ^{from} the modulator is of a first color, and which in a second state, under influence of a biased voltage is spaced on the primary mirror by a second distance which is less than the first distance so that the modulator reflects light of a second color; and

coupling an optical compensation mechanism to the array of interference modulators to compensate for changes in a color of light reflected by the array due to changes in an angle at which the array is viewed.

47. The method of claim 46, wherein the optical compensation mechanism comprises a film which includes arbitrary periodic patterns of refractive indices.

48. The method of claim 46, wherein the optical compensation mechanism comprises an array of photonic crystals to reduce an angle of incidence that light passing through the optical compensation mechanism makes with the array of interference modulators.

49. The method of claim 46, wherein the optical compensation mechanism comprises a film which includes a plurality of microscopic plates oriented to reduce an angle of incidence that light passing through the optical compensation mechanism makes with the array of interference modulators.

50. The device of claim 49, wherein that film comprises a plurality of layers each comprising microscopic plates oriented to reduce an angle of incidence that light passing through the layer makes with a layer below it.

C2
cont

51. The method of claim 46, wherein the optical compensation mechanism comprises a plurality of microscopic lenses to magnify an active area of the interference modulators in the array.
